

WHAT IS CLAIMED IS:

1. A self-adhesive addition-crosslinking silicone composition, comprising
(A) diorganopolysiloxane(s) of the general formula (1)



in which

R^1 is a hydroxyl radical or a monovalent, optionally halogen-substituted C_{1-20} hydrocarbon radical optionally containing O, N, S or P atoms and free of aliphatically unsaturated groups,

R^2 is a monovalent, aliphatically unsaturated, optionally halogen-substituted C_{2-10} hydrocarbon radical optionally containing O, N, S or P atoms,

b has a value from 0.003 to 2,

with the proviso that $1.5 < (a+b) < 3.0$, that on average at least two aliphatically unsaturated radicals R^2 are present per molecule, and that the viscosity of the diorganopolysiloxane(s) (A), determined at 25°C, is 1 mPa·s to 40,000 Pa·s;

- (B) organohydrogenpolysiloxane(s) of the general formula (2)



in which

R^3 is a monovalent aliphatically saturated C_{1-20} hydrocarbon radical,

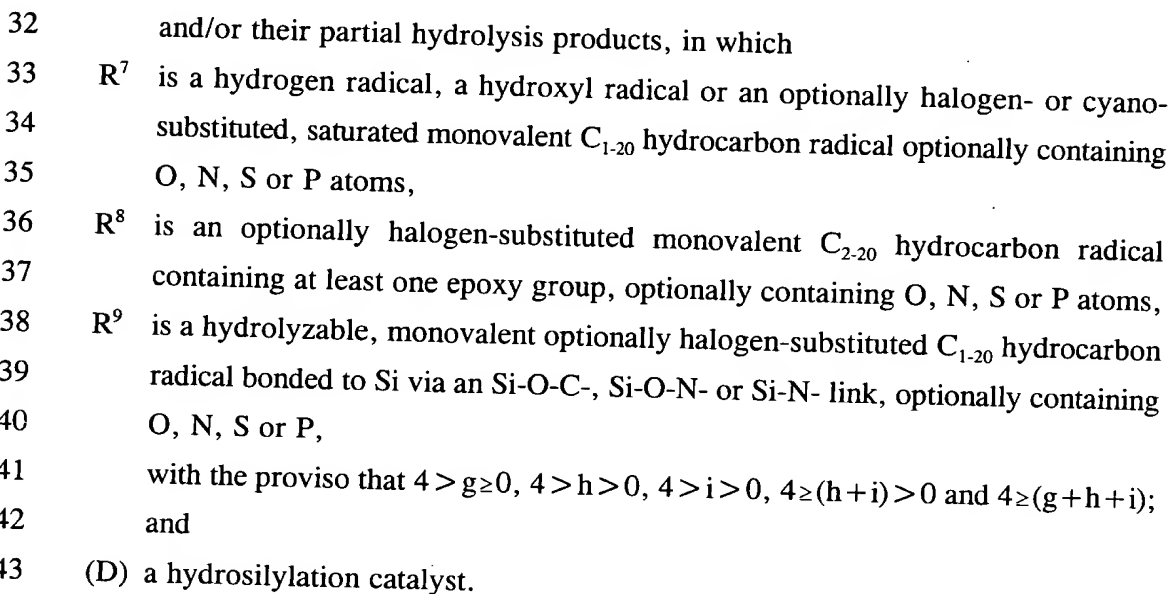
R^4 is (a) an optionally halogen-substituted monovalent C_{6-15} hydrocarbon radical which contains at least one aromatic C_6 -ring, or

(b) a halogen-substituted, saturated monovalent C_{2-20} hydrocarbon radical optionally containing O, N, S or P atoms,

R^5 is a bivalent, optionally halogen-substituted C_{6-20} hydrocarbon radical Si-bonded at both ends, optionally containing O, N, S or P atoms,

c, d, e and f denote positive numbers, with the proviso that the organohydrogenpolysiloxane (B) contains on average 3 to less than 20 SiH groups per molecule, that the relationship: $0.05 < 100(d+e)/(c+d+e+f) < 12$ is fulfilled, and

29 (C) organosilicon compound(s) having epoxy groups and hydrolyzable groups of the
30 general formula (3)



1 5. A self-adhesive addition-crosslinked silicone elastomer obtained by the
process of claim 3.

10. A composite material obtained by the process of claim 8.